

00

FEATURES

mid UGGC1M library"

T110-Gold, T1-resistant, F-"
ified genomic DNA from M.
is obtained from the Jackson
ence
es/documents/dnares/). The DNA
ed by repeated passage through a
ant velocity. The sheared DNA
T4 DNA polymerase and T4
ctor oligonucleotides were
n high molar excess. The
and size-selected for a 9.5 to
tive agarose gel.

was prepared from a derivative
29072-1), a copy-number
ismid R1. The vector was ligated
to the insert adaptors and
tered mouse DNA was annealed to
transformed into
i X110-gold (Stratagene) cells
resistance."

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EST
+04;
5; Indels
13: Length 25;
5; Indels 0; Caps 0;

is musculus cDNA clone
EST 25-OCT-1996

ta; Vertebrata; Euteleostomi;
ognathii; Muridae; Murinae; Mus.
es,M., Dietrich,N., Dubuque,T.,
, Martin,J., Morris,M.,
Underwood,K., Moore,B.,
vares,B., Wilson,R. and

cinEP
St. Louis, MO 63108

Query Match 55.7%; Score 12.8; DB 10; Length 55;
 Best Local Similarity 87.5%; Pred. No. 8.6e+04;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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 /QY ||||||| |||| |||||
 Db 22 ACACCTCTCCCTCGC 7

RESULT 11
 A2342914 26 bp DNA GSS 29-SEP-2000
 LOCUS A2342914 1M07622F Mouse 10kb plasmid UGGC1M library Mus musculus genomic
 DEFINITION clone UGGC1M07622 F, DNA sequence.
 ACCESSION A2342914
 VERSION A2342914.1 GI:10420628
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 REFERENCE 1 (bases 1 to 25)
 Dunn,D., Aoyagi,A., Barber,M., Beacom,T., Duval,B., Hamil,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,
 M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.,
 and Wright,D., Weiss,R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 COMMENT University of Utah Genome Center
 University of Utah
 Rm. 303B, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert length: 10000 Std Error: 0.00
 Insert length: 10000 Std Error: 0.00
 Plate: 0076 row: C column: 22
 Seq primer: CGGTAAACGACGCCACT
 Class: Plasmid ends
 High quality sequence stop: 26.
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 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGC1M07622"
 /clone_id="Mouse 10kb plasmid UGGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="vector: pMD2uv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.Jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY /QY /clone="194101"
 Db /clone="194101"
 BASE COUNT 0 a 3 c 11 g 12 t
 ORIGIN

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY /QY /clone="194101"
 Db /clone="194101"
 BASE COUNT 3 a 11 c 1 g 11 t
 ORIGIN

was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapter DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was purified from a derivative of pMD2 (91473214|gb|AF29072.1), a copy-number indicible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, daptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

"Stratagene) cells

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 2 agacccgcgtcttcgc 20
 /QY |||| | - |||||
 Db 1 AGAACCTCTCTCTCTCTC 19
 RESULT 12
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 LOCUS TA194F01Q T. brucei sheared genomic DNA clone 194f01, reverse sequence.
 DEFINITION genomic survey sequence.
 ACCESSION AL477302
 VERSION AL477302.1 GI:11841328
 KEYWORDS GSS.
 SOURCE Trypanosoma brucei.
 ORGANISM Trypanosoma brucei.
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
 Trypanosoma.
 REFERENCE 1 (bases 1 to 26)
 Hall,N., Bowman,S., Leonard,N.J., Doggett,J., Atkin,R., El-Sayed,N., Hou,L.,
 Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L.,
 Melville,S.E., Rajandream,M.A. and Barrell,B.G.
 TITLE direct submission
 JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and melville@sanger.ac.uk
 COMMENT Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 Gurtat 10.1) was mechanically sheared to give a tight size distribution (~ 4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Ventre, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).
 Genome sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999.
 Email: nelsey@ed.ac.uk
 Details of *T. brucei* sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/projects/T_brucei/.
 FEATURES
 source 1. .26
 /organism="Trypanosoma brucei"
 /strain="TREU927"
 /db_xref="txon:5691"

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY /QY /clone="194101"
 Db /clone="194101"
 BASE COUNT 0 a 3 c 11 g 12 t
 ORIGIN

Query Match 54.8%; Score 12.6; DB 13; Length 26;
 Best Local Similarity 78.9%; Pred. No. 9.6e+04;
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY /QY /clone="194101"
 Db /clone="194101"
 BASE COUNT 3 a 11 c 1 g 11 t
 ORIGIN

was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapter DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was purified from a derivative of pMD2 (91473214|gb|AF29072.1), a copy-number indicible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, daptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

"Stratagene) cells

Qy	5 acacccgcgtctcgcaaa 23	Qy	5 acacccgcgtctcgcaaa 23
LOCUS	AZ845779 35 bp DNA	LOCUS	AU106768 50 bp mRNA
DEFINITION	2M0145B1R Mouse 10kb plasmid UGGC1M library Mus musculus genomic	DEFINITION	AU106768 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
ACCESSION	AZ845779	VERSION	AU106768 HEPI1938 mRNA sequence.
VERSION	AZ845779.1 GI:13015687	VERSION	AU106768 AU106768.1 GI:13556289 EST.
KEYWORDS	GSS.	KEYWORDS	
SOURCE	house mouse.	SOURCE	human.
ORGANISM	Mus musculus	ORGANISM	Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.		
REFERENCE	1 (bases 1 to 35)	REFERENCE	1 (bases 1 to 50)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenem,E., Pedersen,T., Reilly,M., Rose,M., Stokes,R., Tingey,A., von Niederhausern,A.	AUTHORS	Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo,K., Suyama,A. and Sugano,S.
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts	TITLE	Fine structural analysis of transcription start sites of human mRNAs using full-length enriched and 5'-end enriched cDNA libraries
JOURNAL	Unpublished (2000)	JOURNAL	Unpublished (2001)
COMMENT	Contact: Robert B. Weiss	COMMENT	Contact: Yutaka Suzuki
University of Utah Genome Center	Institute of Medical Science, University of Tokyo		
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT	4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan		
Tel: 801 585 5606	Email: ysuzuki@ims.u-tokyo.ac.jp		
Fax: 801 585 7177	Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).		
Insert Length: 10000 Std Error: 0.00	Plates: 0.45 row: B column: 13		
Plate: 0.45 row: B column: 13	Location/qualifiers		
Seq primer: CACACAGGAAACAGCTTGTGACC	1. .50		
Class: plasmid ends	/organism="Homo sapiens"		
High quality sequence stop: 35.	/db_xref="taxon: 9606"		
FEATURES	Location/qualifiers		
SOURCE	/clone="HEP1938"		
1. .35	/clone-lib="Sigano_Homo_sapiens_cDNA_library"		
LOCATION	12 a 11 c 17 g		
FEATURES	BASE COUNT		
SOURCE	ORIGIN		
/strain="C57BL/6J"	Query Match Score 12.6; DB 10; Length 50;		
/clone="UGGC2M0145B13"	Best Local Similarity 78.9%; Pred. No. 1e+05; Mismatches 0; Indels 0; Gaps 0;		
/clone-lib="Mouse 10kb plasmid UGGC1M library"	Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;		
/sex="Male"	Qy 2 agaacaccgcgtctcgca 20		
/lab="E. coli strain XL10-Gold, T1-resistant, F-	Db 40 AGCACACGGCTCCCTCTC 22		
/note="Vector: PW42hv: Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource	RESULT 15		
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PW42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."	AZ462085		
BASE COUNT	LOCUS AZ462085 32 bp DNA		
ORIGIN	DEFINITION 1M0269P08 Mouse 10kb plasmid UGGC1M library Mus musculus genomic		
15 a	ACCESSION AZ462085		
15 g	VERSION AZ462085.1 GI:10620210		
16 t	KEYWORDS GSS.		
1 c	SOURCE house mouse.		
15 g	ORGANISM Mus musculus		
16 t	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
3 a	REFERENCE 1 (bases 1 to 32)		
3 a	AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenem,E., Pedersen,T., Reilly,M., Rose,M., Stokes,R., Tingey,A., von Niederhausern,A.		
3 a	TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts		
3 a	JOURNAL Unpublished (2000)		
3 a	COMMENT Contact: Robert B. Weiss		
Query Match Score 12.6; DB 13; Length 35;	Qy 5 acacccgcgtctcgcaaa 23		
Best Local Similarity 78.9%; Pred. No. 1e+05;	Db 35 ACACCGCTCACACACA 17		
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;			

University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0269 row: p column: 08
 Seq primer: CGGTTAACGACGGCCAGT
 Class: plasmid ends
 High quality sequence stop: 32.

FEATURES
 source
 location/Qualifiers

1 .32

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGGIM0269P08"

/clone_id="Mouse 10kb plasmid UGGCIM library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(<http://www.jax.org/resources/documents/dnare/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pW42 (<http://147.211.149.1/AF129072.1>), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
 ORIGIN

Query Match	Score	DB	Length
Best Local Similarity	53.9%	13	32;
Matches	92.9%	Pred. No.	1.2e+05;
	13; Conservative	Mismatches	0;
		Indels	0;
		Gaps	0;

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Qy      5 acaccggcttc 18
       ||||| |||||||
Db      3 ACACCCACTCTC 16

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 Job time: 11041 sec